

1 (BSP September 26, 2005)

2 **Field Measuring Existing Bridge Columns**

3 The Contractor shall field measure the dimensions (diameter, or width and  
4 thickness, as appropriate for column shape) of the existing bridge columns  
5 receiving column jackets as a first order of work prior to preparing column jacket  
6 assembly shop drawings. The following locations shall be field measured as a  
7 minimum for each column:

- 8
- 9 1. Top of footing or footing pedestal.
- 10
- 11 2. Bottom of crossbeam.
- 12
- 13 3. Mid-height of column.
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15 The Contractor shall field measure the column height from top of footing or footing  
16 pedestal to bottom of crossbeam for each column.

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18 The Contractor shall tabulate these field measured dimensions and submit them to  
19 the Engineer along with the column jacket assembly shop drawings.

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21 Where site conditions, such as traffic control requirements or deeply buried  
22 foundations, create difficulties for field measuring buried portions of the bridge  
23 columns, the Contractor may request a waiver of the pre-fabrication field  
24 measuring requirements for specific columns. If the Engineer approves the  
25 Contractor's request for a waiver of the pre-fabrication field measuring requirement  
26 for specific columns, the Contractor shall:

- 27
- 28 1. Field measure the diameter, or width and thickness, as appropriate for the  
29 column shape, of the above ground portion of the column receiving the  
30 waiver, and include the field measurements in the column jacket assembly  
31 shop drawings.
- 32
- 33 2. Fabricate the column jacket to a length exceeding the column height (610  
34 millimeters or ten percent of the estimated column height, whichever is  
35 greater) based on the original plans and other available site data. The  
36 shop drawing details shall specify the column jacket fabrication length,  
37 and the assumed column height based on the available information.
- 38
- 39 3. Submit the method, template, and equipment used to field cut the top of  
40 the column jacket assembly at installation.
- 41

42 The Contractor shall submit the request for a waiver of the pre-fabrication field  
43 measuring requirement prior to preparing column jacket assembly shop drawings,  
44 and shall not submit shop drawings until completing all field measurements still  
45 required, and receiving the Engineer's approval of the waiver request.